What is claimed is:

- 1. A system of inclined geosynchronous
- 2 satellite orbits above a landmass comprising:
- a service area on a surface of the earth
- 4 having a predetermined minimum elevation angle from
- 5 the horizon;
- a satellite having an orbit with respect to
- 7 the earth having sky track when viewed from within
- 8 said service area; and
- 9 an operating arc defined by a subset of
- 10 points on said sky track over said service area, said
- 11 satellite operating on said operating arc.
- 1 2. A system as recited in claim 1 wherein
- 2 said orbit has a predetermined inclination with
- 3 respect to an equatorial plane of the earth.
- 1 3. A system as recited in claim 1 wherein
- 2 said orbit has a predetermined eccentricity.
- 1 4. A system as recited in claim 3 wherein
- 2 said orbit has an eccentricity factor between about
- 3 0.1 and 0.5.
- 1 5. A system as recited in claim 1 wherein
- 2 said minimum elevation angle is greater than thirty
- degrees.

- 6. A system as recited in claim 1 wherein
- 2 said minimum elevation angle is greater than sixty
- 3 degrees.
- 1 7. A system as recited in claim 1 wherein
- 2 in said orbital track having an apogee and a perigee,
- 3 said apogee is over said service area.